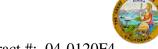
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

WELDING INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter **Report No:** WIR-022085 Address: 333 Burma Road **Date Inspected:** 10-Jan-2011

City: Oakland, CA 94607

OSM Arrival Time: 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1900 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name: CWI Present: Yes An Qing Xiang No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A Yes No N/A **Approved Drawings:** Yes No **Approved WPS:** Yes No N/A **Delayed / Cancelled:**

34-0006 **Bridge No: Component:** OBG

Summary of Items Observed:

On this day CALTRANS OSM Quality Assurance (QA) Inspector Umesh Gaikwad was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island in Shanghai, China. QA observed and/or found the following:

OBG Trial Assembly, OBG Segment 12AE-12BE

This QA Inspector performed verification Ultrasonic Testing (ABF Request No: 01092011-1) in accordance with ABF/CT Pattern "D" UT Procedure 001 Revision 1. All recordable Indications if found were recorded on a separate data sheet that Caltrans QA generates after performing a joint inspection with ABF ultrasonic testing personnel. The location of the inspection was identified as weld between Edge Panel (EP) of segment 12AE to Edge Panel of segment 12BE, welds between Edge Panels (EP) to Deck Panel (DP) of segment 12AE and 12BE (Hold Back Area) and weld between Side Panel (SP) of segment 12AE to Side Panel (SP) of segment 12BE (Cross Beam side). The weld designations were as;

SEG3001AA-021 [12AE-12BE, DP to EP-E5 Holdback Areas (CB side)] CA3002-002 [12AE-12BE, DP to EP-E5 Holdback Areas (CB side)] OBE12-001 [12AE-12BE, EP-F9 (CB side)] OBE12D-002 [12AE-12BE, SP-E8 (CB side)]

This Quality Assurance (QA) Inspector observed the following work in progress:



WELDING INSPECTION REPORT

(Continued Page 2 of 3)

Bay 14

OBG Seg 14W

Repair welding of weld joint no: SEG3020E-056 [Bottom Plate (BP) 3092A to Floor Beam (FB) 3343A, Complete Joint Penetration (CJP) weld at Panel Point (PP) 128.3]. The welder is identified as 047864 and was observed welding in the 2G position. Welding process was identified as Shielded Metal Arc Welding (SMAW). ZPMC QC was identified as Mr. Zhu Lin. The welding variables recorded by this QC appeared to comply with WPS: 345-SMAW-2G(2F)-FCM-Repair. Repair welding was done as per Critical Welding Repair Report (CWR): B-CWR 2734 Rev-0.

The Flux Cored Arc Welding (FCAW) process on weld joint no: SEG3020BB-010 [Sub Assembly (SA) plate SA3444A to Bottom Plate (BP) 3088A, CJP weld in between panel point (PP) 125~126]. The welder is identified as 066236 and was observed welding in the 2G position. ZPMC QC was identified as Mr. Zhu Lin. The welding variables recorded by QC appeared to comply with WPS: B-T-2232-ESAB.

The Flux Cored Arc Welding (FCAW) process on weld joint no: SEG3020BB-046 [Sub Assembly (SA) plate SA3448A to Bottom Plate (BP) 3089A, CJP weld in between panel point (PP) 125~126]. The welder is identified as 066695 and was observed welding in the 2G position. ZPMC QC was identified as Mr. Zhu Lin. The welding variables recorded by QC appeared to comply with WPS: B-T-2232-ESAB.

The Flux Cored Arc Welding (FCAW) process on weld joint no: SEG3020BB-001 [Sub Assembly (SA) plate SA3442A to Bottom Plate (BP) 3087A, CJP weld in between panel points (PP) 125~126]. The welder is identified as 067949 and was observed welding in the 2G position. ZPMC QC was identified as Mr. Zhu Lin. The welding variables recorded by QC appeared to comply with WPS: B-T-2232-ESAB.

The Flux Cored Arc Welding (FCAW) process on weld joint no: SEG3020V-073 [Floor Beam (FB) to Longitudinal Diaphragm (LD) 3049A, CJP weld at panel point (PP) 125]. The welder is identified as 045175 and was observed welding in the 3G position. ZPMC QC was identified as Mr. Zhu Lin. The welding variables recorded by QC appeared to comply with WPS: B-T-2233-ESAB.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

Only general conversation was held between QA and QC concerning this project.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang: 15000422372, who represents the Office of Structural Materials for your project.

WELDING INSPECTION REPORT

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Gaikwad,Umesh **Inspected By:** Quality Assurance Inspector

Reviewed By: QA Reviewer Patterson,Rodney